

OIL ANALYSIS REPORT

Area HOWARD SHEPPARD 2563 HOWARD SHEPPARD

Front Differential Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

🔺 Wear

Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934569	WC0934577	WC0771233
Sample Date		Client Info		14 Apr 2024	12 Apr 2024	15 Oct 2022
Machine Age	mls	Client Info		189581	189671	38877
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	historv1	historv2
Iron	nnm	ASTM D5185m	>500	A 946	701	310
Chromium	nom	ASTM D5185m	>10	5	5	2
Nickel	nom	ASTM D5185m	>10	1	1	0
Titanium	nom	ASTM D5185m	210		-1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	nom	ASTM D5185m	>25	10	9	3
Lead	nom	ASTM D5185m	>25	<1 c1	<1	0
Copper	nom	ASTM D5185m	>100	3	3	1
Tin	nom	ASTM D5185m	>10	0	0	0
Vanadium	nom	ASTM D5185m	210	ر د1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	historv1	history2
Boron	nnm	ASTM D5185m		109	100	109
Barium	nom	ASTM D5185m		2	2	0
Molybdenum	nom	ASTM D5185m		_ <1	<1	<1
Manganese	ppm	ASTM D5185m		21	19	11
Magnesium	ppm	ASTM D5185m		168	150	148
Calcium	mag	ASTM D5185m		4	2	2
Phosphorus	maa	ASTM D5185m		1662	1597	1540
Zinc	mag	ASTM D5185m		16	13	4
Sulfur	ppm	ASTM D5185m		23807	24011	26361
CONTAMINANTS		method	limit/base	current	history1	history2
	,			Current		Thistory 2
Silicon	ppm	ASTM D5185m	>/5	43	41	14
Sodium	ppm	ASTM D5185m	00	7	6	4
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>.2	0.141	0.010	0.035
ppm vvater	ppm	ASTM D6304	>2000	1410	102	358.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	5664	▲ 206090	▲ 195904
Particles >6µm		ASTM D7647	>5000	3085	▲ 148045	<u> </u>
Particles >14µm		ASTM D7647	>640	525	▲ 2596	▲ 1713
Particles >21µm		ASTM D7647	>160	177	29	54
Particles >38µm		ASTM D7647	>40	27	1	2
Particles >71µm		ASTM D7647	>10	3	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	A 25/24/19	▲ 25/24/18
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045		0.80	0.90	0.76

Contact/Location: MIKE BARRY - BASTARHD Page 1 of 2



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		55.8	56.4	58.3
Visc @ 100°C	cSt	ASTM D445		10.0	10.0	10.5
Viscosity Index (VI)	Scale	ASTM D2270		167	165	171
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color







To discuss this sample report, contact Customer Service at 1-800-237-1369.
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
Statements of conformity to prodifications are based on the simple acceptance decision.

Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate 12367

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T:

F:

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